

REMARKS

Claims 1 and 3-6 are pending in the application. By this amendment, claim 1 is amended and claim 2 is cancelled. Reconsideration in view of the above amendments and following remarks is respectfully requested.

Claim 3 was rejected under 35 U.S.C. § 102(b) over Ohba et al. (USPN 5,656,832). The rejection is respectfully traversed.

Claim 3 recites a group III nitride compound semiconductor device of a successively laminated structure including a substrate, a buffer layer, a first layer of AlGaN and a second layer of InGaN. As recited in claim 3, the layers are successive, *i.e.*, the layers follow one another in the order they are recited.

Ohba et al. disclose a semiconductor device having successive layers, including a substrate 10, a pair of buffer layers 11 and 12, a GaN gap layer 13, a GaInN defect reducing layer 14, an AlGaN cladding layer 15, a GaInN active layer 16, an AlGaN cladding layer 17 and a GaN contact layer 18.

There is no disclosure or suggestion by Ohba et al. of a semiconductor device having successive buffer, AlGaN, and InGaN layers, as recited in claim 3. As discussed above, the successive layers of Ohba et al. are buffer layers 11 and 12, GaN layer 13, GaInN layer 14, and AlGaN layer 15. In other words, the GaInN layer 14 of Ohba et al. does not follow, *i.e.*, is not successive with, the AlGaN layer 15, it precedes it. Accordingly, Ohba et al. cannot anticipate or render obvious claim 3.

Applicant respectfully requests that the rejection of claim 3 be withdrawn.

Claims 1 and 2 were rejected under 35 U.S.C. § 103(a) over Edmond et al. (USPN 5,523,589) in view of Schetzina (USPN 6,046,464).

The rejection is respectfully traversed.

Edmond et al. disclose a light emitting diode 20 that includes a substrate 21, a buffer layer 23, a GaN layer 27, an InGaN active layer 25, and another GaN layer 26. Schetzina discloses a linearly graded layer of InGaN. With reference to Figure 9 of Schetzina, it can be seen that the graded layer of InGaN 122b of Schetzina is between a GaN layer 1146 and an InGaN layer 1246. Claim 1, however, recites that the composition ratio of In is changed continuously or intermittently between a first layer of InGaN and a second layer of InGaN, not between a layer of GaN and a layer of InGaN, as shown by Schetzina. Accordingly, even assuming it would have been obvious to combine Edward et al. and Schetzina, such a combination would not have resulted in the invention of claims.

Applicant respectfully requests that the rejection of claim 1, under 35 U.S.C. § 103(a), be withdrawn.

Claims 4-6 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Ohba et al. in view of Duggan (USPN 6,072,189). The rejection is respectfully traversed.

Claims 4-6 recite additional features of the invention and are allowable for the reasons discussed above with respect to claim 3 and for the additional features recited therein. It is also respectfully submitted that Duggan fails to cure the deficiencies of Ohba et al. with respect to claim 3 and even assuming it would have been obvious to combine Ohba et al. and Duggan, such a combination would not have resulted in the invention of claim 3.

Applicant respectfully requests that the rejection of claims 4-6 under 35 U.S.C. § 103(a) be withdrawn.

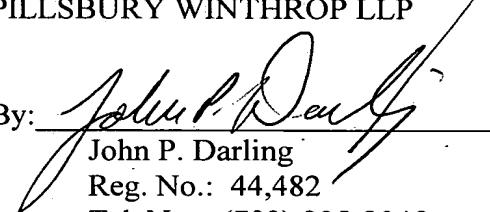
In view of the foregoing, the claims are in form for allowance, and such action is hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, he is kindly requested to contact the undersigned at the telephone number listed below.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached Appendix is captioned "Version with markings to show changes made".

All objections and rejections having been addressed, it is respectfully submitted that the present application is in a condition for allowance and a Notice to that effect is earnestly solicited.

Respectfully submitted,

PILLSBURY WINTHROP LLP

By: 

John P. Darling

Reg. No.: 44,482

Tel. No.: (703) 905-2045

Fax No.: (703) 905-2500

JPD\TPT
1600 Tysons Boulevard
McLean, VA 22102
Tel: (703) 905-2000

Enclosure: Appendix